

MATERIAL SAFETY DATA SHEET

Johnson Matthey Catalog Chemicals
 Aesar/Alfa
 30 Bond Street
 Ward Hill, Massachusetts 01835-0747
 Emergency Phone (508) 521-6300
 Chemtrec (800) 424-9300

IDENTIFICATION

Product Code: 30955 Revision Date: 4/89
 Product Name: Propionic acid
 Formula: CH3CH2CO2H
 Chemical Nature: Carboxylic Acid
 % Activity: 100%

PHYSICAL DATA

Boiling Point: 141oC
 Freeze Point: -23oC
 Specific Gravity: 0.993
 Vapor Pressure at 20oC: 2.9mmHg
 Vapor Density (Air=1): 2.56
 Solubility in H2O: Soluble
 Percent Volatiles by Weight: 100%
 Ionic Nature: No
 Appearance and Odor: Clear color liquid, sharp, acrid odor

HAZARDOUS INGREDIENTS

Material	%	TLV/PEL
Propionic acid	100	10ppm
CAS# 79-09-4		

FIRE AND EXPLOSION HAZARD DATA

Flash Point: 125oF
 Autoignition Temperature: No data
 Flammable Limits in Air, % by volume: Lower 2.9
 Upper 14.8
 Extinguishing Media: Use water, carbon dioxide, dry chemical
 extinguishing agents, dry sand, or dry ground dolomite.
 Special Fire Fighting Procedures: No special firefighting
 procedures needed. Use normal procedures which include wearing
 NIOSH/MSHA approved self-contained breathing apparatus, flame and
 chemical resistant clothing, hats, boots and gloves. If without risk,



remove material from fire area. Cool container with water from maximum distance.

Unusual Fire and Explosion Hazards: May emit toxic fumes if thermally decomposed.

HEALTH HAZARD DATA

Threshold Limit Value: 10 ppm

Effects of Overexposure: Generally recognized as safe because of its usage in foods, but damaging to mucous membranes in concentrated form. Produces severe damage to skin.

Emergency and First Aid Procedures: Remove from exposure. Eyes: flush with copious amounts of water for at least 15 minutes. Skin: Remove any contaminated clothing. flood skin with large volumes of water for 15 minutes. Ingestion/Inhalation: Seek prompt, competent medical attention.

REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Thermal decomposition

Incompatibility: Oxidizing agents, alkalies

Hazardous Decomposition Products: COx

Hazardous Polymerization: Will not occur

Conditions to Avoid: Not applicable

SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled: Wearing full protective clothing and respiratory protection (See Sect. VII), eliminate all sources of ignition. Cover spill with dry sand or dry vermiculite, mix well and carefully transfer to a well-marked container. Close container tightly. Submit or retain for disposal.

Waste Disposal Method: Consult state, local, and federal regulations for proper disposal of Propionic Acid

SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH/MSHA approved organic vapor cartridge or canister respirator, self-contained breathing apparatus for emergency use.

Ventilation- Local exhaust: Preferable

Mechanical: Acceptable

Special: Not applicable

Other: Not applicable

Protective Gloves: Rubber

Eye Protection: OSHA approved safety goggles

Other Protective Equipment: Lab coat and apron, flame and chemical resistant coveralls, eyewash capable of sustained flushing, safety drench shower and hygienic facilities for washing.

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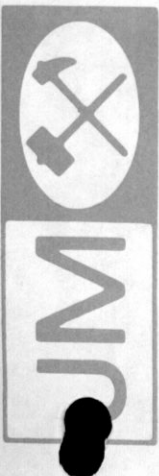
SPECIAL PRECAUTIONS

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Precautionary Labeling: None

Other Handling and Storage Conditions: Keep container tightly closed. Store in a cool, dry, well-ventilated area. Wash thoroughly after use.

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.



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